AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1	1. (Currently amended) A method to facilitate debugging computer code
2	within an operating system kernel, comprising:
3	receiving a source file containing a data structure definition, wherein the
4	source file contains a plurality of data structures;
5	searching the source file for the data structure definition;
6	upon finding the data structure definition, saving the data structure
7	definition in a storage structure;
8	automatically generating a new source code to display a data structure
9	through execution of a source generator program, wherein the new source code is
10	created using the data structure definition, and wherein automatically generating
11	the new source code includes automatically generating source code to walk a
12	linked list of data structures, and wherein generating the new source code
13	involves:
14	examining the plurality of data structures in the storage
15	structure to locate a cross-reference between data structures, and
16	generating the new source code for the plurality of data
17	structures;
18	compiling the new source code into an executable module;
19	installing the executable module into a modular debugger; and

during execution of the modular debugger, displaying a content of the data
structure to a user of the modular debugger using the executable module, whereby
the user is able to view the content of the data structure.
2 (Original) The mostled of claim 1 wherein receiving the gavene file
2. (Original) The method of claim 1, wherein receiving the source file
includes receiving a plurality of source files.
3 (Canceled).
4. (Currently amended) The method of claim 3 claim 1, wherein saving the
data structure definition in the storage structure includes saving the plurality of
data structures in the storage structure.
5-6 (Canceled).
7. (Previously presented) The method of claim 1, wherein displaying the
content of the data structure includes displaying the content of the linked list of
data structures.
8. (Original) The method of claim 1, wherein the data structure definition
includes one of a tree, a linked list, a doubly linked list, and a queue.
9. (Currently amended) A computer-readable storage medium storing
instructions that when executed by a computer cause the computer to perform a
method to facilitate debugging computer code within an operating system kernel,
the method comprising:
receiving a source file containing a data structure definition, wherein the
source file contains a plurality of data structures;

7	searching the source file for the data structure definition;
8	upon finding the data structure definition, saving the data structure
9	definition in a storage structure;
0	automatically generating a new source code to display a data structure
1	through execution of a source generator program, wherein the new source code is
12	created using the data structure definition, and-wherein automatically generating
13	the new source code includes automatically generating source code to walk a
14	linked list of data structures, and wherein generating the new source code
15	involves:
16	examining the plurality of data structures in the storage
17	structure to locate a cross-reference between data structures, and
18	generating the new source code for the plurality of data structures;
19	compiling the new source code into an executable module;
20	installing the executable module into a modular debugger; and
21	during execution of the modular debugger, displaying a content of the data
22	structure to a user of the modular debugger using the executable module, whereby
23	the user is able to view the content of the data structure.
1	10. (Original) The computer-readable storage medium of claim 9, wherein
2	receiving the source file includes receiving a plurality of source files.
1	11 (Canceled).
1	12. (Currently amended) The computer-readable storage medium of claim
2	11 <u>claim 9</u> , wherein saving the data structure definition in the storage structure
3	includes saving the plurality of data structures in the storage structure.
1	13-14 (Canceled).

1	15. (Previously presented) The computer-readable storage medium of
2	claim 9, wherein displaying the content of the data structure includes displaying
3	the content of the linked list of data structures.
1	16. (Original) The computer-readable storage medium of claim 9, wherein
2	the data structure definition includes one of a tree, a linked list, a doubly linked
3	list, and a queue.
1	17. (Currently amended) An apparatus to facilitate debugging computer
2	code within an operating system kernel, comprising:
3	a receiving mechanism that is configured to receive a source file
4	containing a data structure definition;
5	a search mechanism that is configured to search the source file for the data
6	structure definition, wherein the search mechanism is further configured to search
7	the source file for a plurality of data structures;
8	a saving mechanism that is configured to save the data structure definition
9	in a storage structure;
0	an automatic code generating mechanism that is configured to
1	automatically generate a new source code to display a data structure through
12	execution of a source generator program, wherein the new source code is created
13	using the data structure definition;
14	wherein the automatic code generating mechanism is further configured to
15	automatically generate source code to walk a linked list of data structures;
16	an examining mechanism that is configured to examine the plurality of
17	data structures in the storage structure to locate a cross-reference between data
18	structures:
19	wherein the generating mechanism is further configured to generate the
20	new source code for the plurality of data structures;

21	a compiling mechanism that is configured to compile the new source code
22	into an executable module;
23	an installing mechanism that is configured to install the executable modul
24	into a modular debugger; and
25	a displaying mechanism that is configured to display a content of the data
26	structure to a user of the modular debugger using the executable module, whereby
27	the user is able to view the content of the data structure.
1	18. (Original) The apparatus of claim 17, wherein the receiving
2	mechanism is further configured to receive a plurality of source files.
1	19 (Canceled).
1	20. (Currently amended) The apparatus of claim 19 claim 17, wherein the
2	saving mechanism is further configured to save the plurality of data structures in
3	the storage structure.
1	21-22 (Canceled).
1	23. (Previously presented) The apparatus of claim 17, wherein the
2	displaying mechanism is further configured to display the content of the linked li
3	of data structures.
1	24 (Original) The apparatus of claim 17 subgrain the data atmenture
1	24. (Original) The apparatus of claim 17, wherein the data structure
2	definition includes one of a tree, a linked list, a doubly linked list, and a queue.